





SENSE RESISTANCE OF EACH WIRE OF A COPPER PAIR THAT CARRIES COMMUNICATION SIGNALS

-300

INDEPENDENTLY CONTROL THE RESISTANCE OF EACH WIRE OF THE COPPER PAIR FOR MATCHING, AT LEAST UP TO AN ACCEPTABLE RESISTANCE DIFFERENCE VALUE, RESISTANCE OF SIGNALS "CARRIED OVER A CORRESPONDING WIRE OF THE THE COPPER PAIR TO A LOCAL GROUND

-310

FIG.4

COMPUTE AT LEAST ONE OF THE FOLLOWING FOR A COPPER PAIR THAT CARRIES COMMUNICATION SIGNALS: COMMON-MODE NOISE; AND DIFFERENTIAL SIGNAL IMBALANCE

-350

PROVIDE AT LEAST ONE CANCELLATION SIGNAL FOR RESPECTIVELY REDUCING AT LEAST ONE OF THE FOLLOWING: THE COMMON-MODE NOISE; AND THE DIFFERENTIAL SIGNAL IMBALANCE

-360

FIG.5

DETECT AT LEAST ONE OF THE FOLLOWING ON EACH WIRE OF A COPPER PAIR THAT CARRIES COMMUNICATION SIGNALS: A RMS VOLTAGE: AND A PEAK VOLTAGE

-400

EMPLOY AT LEAST ONE OF THE RMS VOLTAGE AND THE PEAK VOLTAGE TO COMPUTE AT LEAST ONE OF THE FOLLOWING: A LINE IMBALANCE; AND COMMON-MODE NOISE VERSUS DIFFERENTIAL SIGNAL IMBALANCE

-410